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IDENTIFIERS

\*Educational Resources Information Center; ERIC; National Center for Educational Communication;

Query

#### ABSTRACT

A search of ERIC literature was undertaken in order to assess research on educational needs. A set of ERIC descriptors was selected, and criteria for evaluation of each abstract established. Approximately 1800 abstracts were retrieved; 150 survided the first screening and 75 the second. Priorities were then assigned to decide which documents should be retrieved. A list of the priority documents is appended with a matrix of their contents and value. (SK)



### ERIC LITERATURE SEARCH ON NEEDS ASSESSMENT\*

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Educational information systems have been of great assistance both in improving the quality of service and in saving valuable time which otherwise would have to be spent at research. Educational Resources Information Center (commonly known as ERIC) is invaluable in attempting to grasp the present state of any question in educational research - especially for the following research on needs assessment.

Through Dr. Lee G. Burchinal and Dr. James Eller of the National Center for Educational Communication in Washington, QUERY - the computerized ERIC data base - has been installed at the Mitre Corporation for dissemination by the Merrimack Education Center. In addition to being of massive assistance for the research on needs assessment, MEC has also utilized this service in order to disseminate information on bilingual education, individualized instruction and management information systems. This data base also plays a significant role in MEC's projected plans for disseminating information to targets where a felt need has already been ascertained.

Needs Assessment is the most critical area both in educational planning and knowledge utilization. Nevertheless, it is impossible to respond to real needs without adequate information and facilities. The possibilities of ERIC, especially with its OUERY data base, present great hope of meeting this need.

\*Adapted from the report of the <u>Massachusetts Needs</u>
Assessment Task Force

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# PROCEDURE AND CRITERIA BEST COPY AVAILABLE

In initiating an ERIC search pertaining to needs assessment, it first was necessary to arrive at a set of descriptors in order to limit the search. There was no descriptor labelled need assessment."

As a result, this concept was translated into other terms such as "educational needs," "educational planning," "educational change," "educational innovation," and "school planning." Planning-Programming-Budgeting Systems (PPBS), although related to the overall scope of the project, was de-emphasized because its primary focus is not on needs assessment and because the Task Force is familiar with this particular management tool.

After selection of the descriptors, MFC conducted a trial manual search through the 1970 issues of Research and Education, the periodical which contains information on the literature deposited in the ERIC data base. EDCO conducted another trial search, using the on-line DIALOGUE retrieval capability, which provided additional insights on search strategy. This capability was made available to the Task Force through the National Center for Educational Communication, USOE.

The results of the trial searches convinced the Task Force that it was worth the investment to conduct a computer-aided off-line QUERY search from the beginning of ERIC (1966) through 1970. This search was conducted by MITRE and MEC without cost to the project because a computerized copy of the ERIC data base and the QUERY retrieval capability were made available to NEC and installed at MITRE's Computer Facility. Installation and checkout were borne by the USOE and MEC.



At the conclusion of the OUERY search, information had been retrieved on approximately 1800 abstracts which appeared to be of relevance to the project. The next step was to reduce this enormous number of abstracts to a reasonable size. Thus, the Task Force established a set of criteria and evaluated each abstract in terms of its ability to meet one or more of the following:

- (1) indications that the scope of the needs assessment approach documented was broad enough to cover various types of problems;
- (2) indications that the focus of the need assessment approach being reported had a focus that centered on improving the quality of educational services delivered;
- (3) indications that the needs assessment approach reflected a high degree of validity and precision, and that it was sufficiently objective to allow valid data analysis;
- (4) indications that the approach used in the study would be useful in setting priorities and in improving the rationale for decisions made in regard to resource allocation and planning;
- (5) indications that the approach was extensive enough to accommodate different points of view;
- (6) indications that the approach being reported would reinforce previously implemented needs assessment exercises;
- (7) indications that the approach would be useful in the identification of emerging future needs;
- (8) indications that the approach was linked to a design and/or to a process of planned change;
- (9) indications that the length of time it took to develop and implement the approach was reasonable in terms of the results achieved: and
- (10) indications that the costs associated with developing and implementing the approach were reasonable in terms of the results achieved.



Approximately 150 abstracts survived this screening. After some discussion, the members of the team developed an even greater familiarity with the task, and reduced the number to 75. These were next placed into one of three categories of priority for action.

### Priority 1

Retrieve document; abstract indicates that study reported is incisive in its discussion of needs assessment and/or planning, and/or describes an apparently feasible needs assessment technique.

### Priority 2

Do not retrieve document; abstract indicates study reported has some attributes as those in above category, but the techniques are already well understood or sufficiently described in the abstract.

### Priority 3

Defer retrieval of document; abstract indicates that study relates to special interests in needs assessment but is not of immediate value.

Microfiche films for the first category were obtained, enlarged into hard copy and analyzed. The titles which were assigned either a Priority 2 or a Priority 3 rating are attached.

In conclusion, the Task Force considered the search worth the effort. However, the exercises revealed a number of insights which would make future searches less laborious and more cost-effective. For instance, more relevant descriptors (needs assessment) would have facilitated search effectiveness. With the exception of simulation (the relevant articles here were also listed under "educational planning"), techniques applicable to needs assessment were not among the descriptors. Also, reorganization of the ERIC data base and modifications to the QUERY program and user manual would cut retrieval time and costs.



Upon final reflection, the search could have been initially limited to three descriptors: educational needs, educational innovation, and educational planning. This would have yielded at least 1500 documents. The contents of many of the abstracts were not pertinent to the task while others lacked the necessary quality to be utilized in this study. Future improvements in data quality and in retrieval system design, some of which are being considered by USOF, would certainly facilitate the search task and significantly lower the cost.



## PRIORITY DOCUMENTS PERTAINING TO NEEDS ASSESSMENT IN THE ERIC DATA BASE

ED	011761	Looking Ahead to Better Education in Missouri. A report on organization, structure and financing of schools and junior colleges.
ED	014360	Planning At The Grass Roots.
ED	014662	Experimental Explorations in Programmed Instruction and Objective Testing Measures. Report of the 'Variables Influencing Bohavior."
ED	017685	Curricula Needs of North Bay Schools.
ED	8008	Cooperative Planning for Education in 1980 Objectives, Procedures, and Priorities.
ED	018325	Planning for Educational Innovation in a Rural State.
ED	018509	A Survey of the Educational Needs of Santa Clara County.
ED	018865	Long Range Planning for Public Schools. Presenting an Outline to Indicate Scope of Long Range Development Program.
ED	019737	Planning and Implementing Change in Ontario Schools. A report of the committee on the implementation of change in the classroom.
ED	020571	An Analysis of the Rationalo and Procedures for Long-Range Planning Found in Selected Dor. Enterprises, Govt. Agencies or Dept. and School Systems Which are Appropriate for Educ. and Adm. Planning in Local Sch. Sys.
E.D	021338	Cooperative Project for Educational Development.
ED	026741	From Research to Development to Use.
ED	027394	A Study to Identify Educational Needs of Non-College Bound Students in a Rural Public High School of Six Hundred Students.
ED	027633	An Operational Application of the Stufflebeam-Guba Cipp Model for Evaluation.
ED	028113	The Center for Study of Educational Innovations. A statement of intent. Current and future projects.
ED	029382	The Use of Computer Simulation Techniques in Educational Planning.



ED 030985 Identifying and Formulating Educational Problems. ED 036018 Selected Bibliography on Mathematics for the Blind. ED 038743 Brainstorm. A sub-project assessing ed. needs as perceived by school staff. Interagency planning for urban ed. needs. ED 038744 Speak-Un. A sub-project assessing ed. needs as perceived by the Community. Project design. Interagency planning for urban ed. needs. ED 038745 Student 'Speak-Up." A sub-project assessing educational needs as perceived by secondary students. Project design. Interagency planning for urban ed. needs. ED 038747 Analysis of Achievement. Project design. Interagency planning for urban ed. needs. ED 038748 Problems Perecived by Ed. Leadership. Project design. Interagency planning for urban ed. needs. ED 038767 Conclusions from Needs Assessment Publications. Project design. Interagency planning for urban ed. needs. ED 038768 Summary Fresno Ed. Needs Assessment. Project design. Interagency planning for urban ed. needs. ED 038769 The Process of Ed. Planning. Project design. Interagency planning for urban ed. needs. FD 038740 The First Step in Ed. Problem Solving -- A Systematic Assessment of Student Benefits. ED 039631 Determining Ed. Needs. An Overview. ED 039749 Systems Analysis in Ed.

ED 041389 Comprehensive Planning for School Districts.



ED 041351

ED 041357

Citizens for the 21st Century. Long-range considerations

Informational Requirements for Educational Requirements

for California Elementary and Secondary Education.

A Survey of the Decision Processes and Related

for Educational Planning and Innovation.

MATRIX

OF

PRIORITY DOCUMENTS



EPIC Petrieval No.	Objectives	Focus	l'eans of Collectine Data	Imple- mented? Yes No	Heeds Identified
ED 011 761	Determine SEA Needs	Assessment of Current Practices	of Task Force of National Educators Interviews Conferences	Х	Feorganized/ Expand Pole of  SEA Statutory Changes Increased Budget Statewide Achiev- ment Testing
ED 014 360	Determine Where Focus of Plan- ning Initiative Should Be	Assessment of Local, Regional & National Involve- ment in Planning	• Analysis of Existing Documen- tation	х	° Planning Process Based on Local, Regional and National Participation
ED 014 662	Investigate, Analyze and Experiment with Methods and Tools for Studying Impact of Future Trends in Education	° Determination of "Wants" of Selected Croups ° Determination of Future Roles for Educators	Survey of Current Forecasting Methods Contextual Mapping Survey of Mathematical Models for Planning	х	<ul> <li>Philosophy to         Cuide Policy         and Planning         Decisions</li> <li>Establishment         of Educational         Policy tesearch         Centers</li> </ul>
ED 017 685	* Assess Curricular Objectives * Determine Curricular Needs of 4 Calif. Counties	° Development of Priorities for Program Development	° Question- naires to - 9º School Adminis- trators	X	° Increased Emphasis on Affective Learning ° Expansion of Vocational Training, Social Studies, Home Economics ° Increased Emphasis on Synthesizing and Evaluating Knowledge



EPIC Petrieval No.	Objectives	Focus	leans Collecting Data	Imple- mented? Yes No	Needs Identified
EE 018 008	Characterize Trends that may Shape Emerging (through 1930) Educational Needs	* Improvement of Long-Pange Planning for Education	Analysis of Current/ Future Trends	**	" Improved/Cooperative Planning "Structuring Productive Context "Better Planning Data "Better, Hore Alternatives "Earlier "Sensitivity" to Anticipated Change "Instill Awareness of Need for Planned Change
ED 018 325	Conduct Inventory of Inno- vative Practices	° Non-Disruptive Introduction of Innovative Practices in Vermont	° On-Site Visits ° Vorkshops	y,	<ul> <li>Regional "Action" Centers</li> <li>Conferences and Classroom Demonstrations to Disseminate Innovations</li> </ul>
ED 013 509	Re-examine, Assess Curricular Objectives	Determination of Educational Nee in one Calif. district as a Basis for Assigning Prior ities to Change in School Programs.	ds naires Completed by 4000 Students, 1600 Teach-	x	Programs Drug Education Family Life Vocational Training Communication Skills Problem-Solving, etc.



ERIC Fetrieval	Objective	Focus	Means of Collecting Data	Imple- mented? Yes No	Needs Identified
ED 026 741	Increase Innovative Activity	Survey of Schools with Outstanding Innovations to Determine Problems in Pesearch-to- Development- to-Use Process	° Traveling Seminar of 120 Educators ° Conference ° Research	x	Better Measures for Evaluating Innovative Practices Nore Federal Finding to Support Implementation Better Dissemination Instruments, etc.
ED 027 394	Assess Needs of Non-College Bound Students	Vocational Education	° Question- naires to ° President Students ° Graduates ° Community	x	° In-Service Counseling ° Lay Advisory Committee ° Expanded Guidance ° Curricula and Instructional Innovations, etc.
ED 927 633	Develop Systematic Procedures to Determine the Potential Value of a Proposed Innovation	Four of the Categories in Which Decisions are Made: Context Process Design Product	Exercise Theoretical Model (Theoretical Study Only)	X	Better Informa- tion for Podel
ED 028 113	Improve Process of Innovative Development	University Center for a Study of Educational Innovations	Research Analysis (Theoretical Study Only)	x	Coordinated Central Focal Point for Systematic Improvement of Process



RPIC Retrieval No.	Objective	Focus	M-ans of Collecting Data	Imple- mented? Yes No	Needs Identified
ED 018 865	° Characteriz- ation of Current Environment (Community, School)	Implement Improved Long-Pange Plan- ning Activities	l Analysis	X	Guidelines Matrix for Planners
ED 019 737	Adoption of Innovative Practices for Program Development	Development of Model of Planned Change for Curricula	° Observation ° Exercise of Planned Change Model	X	<ul> <li>Initiation of Continuous Progress Plan</li> <li>Team Teaching at Secondary Level</li> </ul>
ED 926 571	Inventory of Current Practices	Long-Range Planning	° Ouestion- naires ° Interviews	X	° Systematic Long- Pange Planning Process ° Dissemination of Planning Skills, Techniques to Educational Administrators
ED 021 338	""Sense" Existing Organiza- tional Climate Show Schools Ways of Self-Renewal	° Development of Alterna- tive Strategies for Planned Change	° Ouestion- naires ° Case Studies	Ж.	° Formulate Set of Variables Pelevant to Operation of School System ° Develop Measurement Instruments ° Effective Use of Outside Consultants



ERIC Setrieval No.	∩blectives	Focus	Means of Collecting Data	Imple- mentad? Yes No	Needs Identified
ED 029 382	Establish Coals, Guidelines and Constraints for Educational Planning	Use of Computer- Based Simulation Models in Educa- tional Planning	Exercise Fodel (Theoretical Study Only)	77	Development of two Models Applicable to Computer Simulation Descriptive Mormative
ED 030 985	Development of Effective Techniques for Identifying Educational Needs and Formulating Them into Well-Defined Problem Statements	Representative Sample of West Coast School Districts	Critical Incident Technique	X	Perticipation of Trained/Experienced Leaders in Group Problem-Finding Exercises
ED 036 018	Stimulate Community Participation in Planning a New School	Provide Basic Inputs for Design of an Urban School Facility	Face-to-Tace Meetings of: School Staff Community Architects		° Curriculum Innovation ° Improved Guidance in Education ° Community Service Coordination ° 24-hour Educational Cormunity



EPIC Retrieval No.	Objective	Focus	Means Collecting Data	Imple- mented? Yes No	ileeds Identified
ED 038 -743 -744 -745 -747 -748 -717 -768 -769	Determine Dimensions of Educational Needs in Fresro, Calif.	° Curriculum ° Health Problems ° In-Service Training, etc.	° Brain- storming ° "Speak-Ups" ° Interviews ° Testing (to Analyze Student Achievement ° Interagency Participa- tion	Х	° Ethnic Minority Deeds ° Communication Needs ° Program Objective Needs ° Evaluation Measures ° In-Service Training ° Curriculum Level ° Vocational Education ° Adult Education, etc.
ED 038 749	Improve Ouality of Educational Services	Teacher/Student Agreement on Learning Objectives	° Pesearch ° Analysis ° Observation	х	Improved Information for Decision
ED 039 631	Clarification of "Semantic Smoke" Cloud- ing Definition of Educational Need	Formal, Systematic Process	° Research ° Analysis	X	° Models for Clarifying Needs ° Hard Data
ED 030 749	Use of General Systems Theory in Problem- Solving	Comparison of Computer Systems Attributes to School System Attributes	Simulation Model (Theoretical)	х	Improvement of Schools' Production "Subsystems" via Curriculum Innovation



ERIC Petrieval	Objective	Focus	Means of Collecting Data	Imple- mented? Yes No	Needs Identified
ED 041 351	Formulation of Recommendation to California State Government	Future Educational Needs	° Task Force (24 Local Professors) Interactions on Trends, Projections, etc. ° Study of Public Opinion	X	Racial Integration Teacher Training Experimental Laboratory Schools Budgeting Techniques Improved Public Opinion Curriculum
ED 041 357	Determine Processes of Information Utilization and Decision Making	LEA (San Francisco)	Ouestionnaires	X	Better Inter- pretation of Stastical Data Understanding Procedures for Using Information Systems Low Profile of Teacher Participation in Decision Making Lack of Time to Study Problems, Etc.
ED 041 389	Use of Cost/ Benefit Analysis in Planning	Assignments of Weights/ Priorities to Needs	Analysis (Theoretical)	x	Improve Relation- ship f Inputs (Neer to Out- puts (Results)



### CATEGORY 2

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